

Process for producing a thin sheet of ultra-low-carbon steel for the manufacture of drawn products for packaging and thin sheet obtained

ABSTRACT

A killed and vacuum-degassed very-low-carbon steel containing, by weight, between 0.10 and 0.35% manganese, less than 0.006% nitrogen, less than 0.025% phosphorus, less than 0.020% sulphur, less than 0.020% silicon, at most 0.08% of at least one of the elements copper, nickel and chromium, as well as aluminium. The steel is cast in the form of a slab, the slab is hot rolled in order to obtain a hot-rolled sheet, the hot-rolled sheet is coiled, the hot-rolled sheet is cold rolled in two rolling operations separated by a continuous annealing operation. The steel contains at most 0.006% carbon by weight and 0.010% aluminium and the hot-rolled sheet is coiled at a temperature below 620°C. Preferably, the steel is killed by mixing with a slag containing adjusted amounts of aluminium and of alumina.

Figure 2B.

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